NovaGold's Galore Creek
Gold, Silver and Copper Project
– Northern British Columbia
Rescan
NovaGold Canada Inc.
- Using GoldSim 9.0 to model water quality in a tailings and waste rock storage facility
Rescan Environmental Services Ltd.
Water Balance
• Mountain watershed
• High annual precipitation and runoff (> 2,200 mm/year)
Inputs
- Natural runoff/precipitation
- Open pit water
- Groundwater
- Process water
Outputs
- Pumped outflow from facility
- Evaporation
Results
• Predictions of changes to downstream hydrographs
• Estimates of required storage capacity of the tailings and waste rock storage facility
The Project
• Gold, silver, and copper open pit mine
• 3 years construction
• 20 years mine life
• 65,000 tonnes of ore per day
The Model
• GoldSim 9.0
• Dilution model with solubility constraints for WQ Parameters
• Model considers
- Water Balance, including operational pumping schedule
- Water Quality, within storage facility and receiving waters
- Solids managment (tailings and waste rock)
- Dam raise schedule
• Monthly time steps
Conclusions
Water Quality

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